

Eric Debayle

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50
papers

2,848
citations

32
h-index

53
g-index

55
ext. papers

3,113
ext. citations

6.2
avg, IF

5.25
L-index

#	Paper	IF	Citations
50	Global azimuthal seismic anisotropy and the unique plate-motion deformation of Australia. <i>Nature</i> , 2005 , 433, 509-12	50.4	232
49	Upper mantle structure of eastern Asia from multimode surface waveform tomography. <i>Journal of Geophysical Research</i> , 2006 , 111,		156
48	The Australian continental upper mantle: Structure and deformation inferred from surface waves. <i>Journal of Geophysical Research</i> , 2000 , 105, 25423-25450		153
47	Seismic evidence for a global low-velocity layer within the Earth's upper mantle. <i>Nature Geoscience</i> , 2010 , 3, 718-721	18.3	150
46	Seismic evidence for a deeply rooted low-velocity anomaly in the upper mantle beneath the northeastern Afro/Arabian continent. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 423-436	5.3	142
45	Anisotropy in the Australasian upper mantle from Love and Rayleigh waveform inversion. <i>Earth and Planetary Science Letters</i> , 2000 , 184, 339-351	5.3	133
44	Seismic observations of large-scale deformation at the bottom of fast-moving plates. <i>Earth and Planetary Science Letters</i> , 2013 , 376, 165-177	5.3	102
43	The African upper mantle and its relationship to tectonics and surface geology. <i>Geophysical Journal International</i> , 2008 , 175, 1108-1126	2.6	90
42	Rayleigh wave tomography in the North Atlantic: high resolution images of the Iceland, Azores and Eifel mantle plumes. <i>Lithos</i> , 2005 , 79, 453-474	2.9	84
41	Anisotropy in the Indian Ocean upper mantle from Rayleigh- and Love-waveform inversion. <i>Geophysical Journal International</i> , 1998 , 133, 529-540	2.6	83
40	Multimode surface waveform tomography of the Pacific Ocean: a closer look at the lithospheric cooling signature. <i>Geophysical Journal International</i> , 2006 , 166, 1384-1397	2.6	80
39	Inversion of massive surface wave data sets: Model construction and resolution assessment. <i>Journal of Geophysical Research</i> , 2004 , 109,		78
38	A global shear velocity model of the upper mantle from fundamental and higher Rayleigh mode measurements. <i>Journal of Geophysical Research</i> , 2012 , 117,		75
37	Azimuthal anisotropy of the Pacific region. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 53-71	5.3	75
36	SV-wave azimuthal anisotropy in the Australian upper mantle: preliminary results from automated Rayleigh waveform inversion. <i>Geophysical Journal International</i> , 1999 , 137, 747-754	2.6	74
35	An automatically updated S-wave model of the upper mantle and the depth extent of azimuthal anisotropy. <i>Geophysical Research Letters</i> , 2016 , 43, 674-682	4.9	72
34	Propagation of a melting anomaly along the ultraslow Southwest Indian Ridge between 46°E and 52°20'E: interaction with the Crozet hotspot?. <i>Geophysical Journal International</i> , 2009 , 179, 687-699	2.6	68

33	The state of the upper mantle beneath southern Africa. <i>Tectonophysics</i> , 2006 , 416, 101-112	3.1	66
32	The Zagros core: Deformation of the continental lithospheric mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	62
31	The mantle transition zone as seen by global Pds phases: No clear evidence for a thin transition zone beneath hotspots. <i>Journal of Geophysical Research</i> , 2008 , 113,		62
30	Seismic evidence for a moderately thick lithosphere beneath the Siberian Platform. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	61
29	Seismic evidence for deep low-velocity anomalies in the transition zone beneath West Antarctica. <i>Earth and Planetary Science Letters</i> , 2003 , 216, 645-661	5.3	61
28	Upper mantle heterogeneities in the Indian Ocean from waveform inversion. <i>Geophysical Research Letters</i> , 1997 , 24, 245-248	4.9	57
27	Upper mantle S-wave speed heterogeneity and anisotropy beneath the North Atlantic from regional surface wave tomography: the Iceland and Azores plumes. <i>Geophysical Journal International</i> , 2004 , 159, 1057-1076	2.6	57
26	Upper mantle structure of the South American continent and neighboring oceans from surface wave tomography. <i>Tectonophysics</i> , 2005 , 406, 115-139	3.1	55
25	Can finite-frequency effects be accounted for in ray theory surface wave tomography?. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	50
24	Upper mantle structure of shear-waves velocities and stratification of anisotropy in the Afar Hotspot region. <i>Tectonophysics</i> , 2008 , 462, 164-177	3.1	45
23	Confirmation of a change in the global shear velocity pattern at around 1000 km depth. <i>Geophysical Journal International</i> , 2017 , 211, 1628-1639	2.6	38
22	Depth-variant azimuthal anisotropy in Tibet revealed by surface wave tomography. <i>Geophysical Research Letters</i> , 2015 , 42, 4326-4334	4.9	37
21	Mantle upwellings and convective instabilities revealed by seismic tomography and helium isotope geochemistry beneath eastern Africa. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	35
20	A 3D shear-wave velocity model of the upper mantle beneath China and the surrounding areas. <i>Tectonophysics</i> , 2014 , 633, 193-210	3.1	32
19	A global horizontal shear velocity model of the upper mantle from multimode Love wave measurements. <i>Geophysical Journal International</i> , 2016 , 207, 542-561	2.6	32
18	Seismoacoustic coupling induced by the breakup of the 15 February 2013 Chelyabinsk meteor. <i>Geophysical Research Letters</i> , 2013 , 40, 3522-3526	4.9	26
17	Frequency-dependent effects on global S-wave traveltimes: wavefront-healing, scattering and attenuation. <i>Geophysical Journal International</i> , 2010 , 182, 1025-1042	2.6	25
16	Seismic evidence for partial melt below tectonic plates. <i>Nature</i> , 2020 , 586, 555-559	50.4	25

15	Multi-mode conversion imaging of the subducted Gorda and Juan de Fuca plates below the North American continent. <i>Earth and Planetary Science Letters</i> , 2016 , 440, 135-146	5.3	24
14	Strong lateral variations of lithospheric mantle beneath cratons [Example from the Baltic Shield]. <i>Earth and Planetary Science Letters</i> , 2013 , 383, 164-172	5.3	23
13	Deep crustal fracture zones control fluid escape and the seismic cycle in the Cascadia subduction zone. <i>Earth and Planetary Science Letters</i> , 2017 , 460, 1-11	5.3	19
12	Seismic evidence for a change in the large-scale tomographic pattern across the D?? layer. <i>Geophysical Research Letters</i> , 2016 , 43, 7928-7936	4.9	16
11	An objective rationale for the choice of regularisation parameter with application to global multiple-frequency <i>S</i>-wave tomography. <i>Solid Earth</i> , 2013 , 4, 357-371	3.3	14
10	Geodynamic Context of the Taiwan Orogen. <i>Geophysical Monograph Series</i> , 2004 , 127-158	1.1	14
9	Attenuation tomography of the upper mantle. <i>Geophysical Research Letters</i> , 2017 , 44, 7715-7724	4.9	13
8	Interactions of scales of convection in the Earth's mantle. <i>Tectonophysics</i> , 2018 , 746, 669-677	3.1	11
7	Quantifying seismic anisotropy induced by small-scale chemical heterogeneities. <i>Geophysical Journal International</i> , 2017 , 211, 1585-1600	2.6	10
6	Rayleigh wave phase velocity and error maps up to the fifth overtone. <i>Geophysical Research Letters</i> , 2015 , 42, 3266-3272	4.9	7
5	Surface-wave studies of the Australian region 2003 ,		6
4	RBIF-SI: A Distributed Information System for French Seismological Data. <i>Seismological Research Letters</i> , 2021 , 92, 1832-1853	3	6
3	Seismic evidence for broad attenuation anomalies in the asthenosphere beneath the Pacific Ocean. <i>Geophysical Journal International</i> , 2017 , 209, 1677-1698	2.6	5
2	Evidence for radial anisotropy in the lower crust of the Apennines from Bayesian ambient noise tomography in Europe. <i>Geophysical Journal International</i> , 2021 , 226, 941-967	2.6	4
1	Quantifying Intrinsic and Extrinsic Contributions to Radial Anisotropy in Tomographic Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022322	3.6	1